PATENT
Client Reference Number: Soper-video

CERTIFICATE OF HAND DELIVERY

I hereby certify that this correspondence is being hand filed with the United States Patent and Trademark Office in Washington, DC. 20231
on September 30, 2005
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Dr. O.M. (Sam) Zaghmout
Signature Sam Zaghmout
Attachments: preliminary Amendment of Claims

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:
Kevin James SOPER
Philip Brendan BANKS

Title: A VIDEO PROJECTOR AND OPTICAL ENGINE

Filing Date: Not assigned.

Application Serial Number: Not assigned.

Examiner: No assigned.

Mail Stop: Non-Fee Amendment (Newly Filed National Stage Application-PCT)

Lorton. Virginia. 2005 September 30. Friday

PRELIMINARY AMEDMENT

Honorable Commissioner for Patents
P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Prior to payment of the filing fees and examination of the above-identified patent application on its merits, please enter the following amendments as follows.

IN THE CLAIMS

Please amend Claims 3, 6-7, and 10-13. Claims 1-14 are pending. The listing of the claims begins on page 3 of this paper.

REMARKS

Applicants are amending Claims 3, 6-7, and 10-13 to reduce filing costs only and reserve the right to reintroduce identical claims or similar subject matter in future prosecution. Claims 3, 6-7, and 10-13 have been amended. Claims 1-14 are pending. Support for the amendment can be found in the present application. Accordingly, no question of new matter should arise, and entry of this amendment is respectfully requested.

CONCLUSION

Applicants respectfully request favorable consideration of the present application and a timely examination of the pending claims.

Should any official at the United States Patent and Trademark Office deem that any further action by the Applicant or Applicant's undersigned representative is desirable and/or necessary, the official is invited to telephone the undersigned at the number set forth below.

Respectfully submitted,

By: Sam Zaghmout

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Claims:

1. (ORIGINAL) A projector including:
a housing;
and an optical engine, said optical engine including a liquid crystal display (LCD) projector to project an image displayed in said LCD projector and further including an objective lens to focus said image onto a distal surface therefrom.

2. (ORIGINAL) A projector as in claim 1 wherein the LCD projector of said optical engine includes a series of optical elements through which a light source is adapted to pass.

3. (CURRENTLY AMENDED) A projector as in claims 1 ~~or 2~~ wherein said light source is a collimated light source.

4. (ORIGINAL) A projector as in claim 3 wherein said series of optical elements includes, in order of placement between said light source and said objective lens, an absorption heat filter, a polariser, a condensor lens. and an LCD display which includes an outer polariser.

5. (ORIGINAL) A projector as in claim 4 wherein said optical engine includes a base, two sides and a top clip adapted to hold said optical elements in predetermined fixed relationship.

6. (CURRENTLY AMENDED) A projector as in ~~any one of the above~~ claims 1 wherein said housing includes a body section adapted to house said optical engine and a lid whereby removal of said lid allows access into said body section.

7. (CURRENTLY AMENDED) A projector as in ~~any one of the above~~ claims~~-~~ 1 wherein said housing includes one or more cooling vents and at least one fan adapted to draw air from outside of the housing into within the housing and then expel said air out of the housing through said cooling vents.

8. (ORIGINAL) A projector as in claim 7 wherein said housing includes two strategically positioned cooling vents, a first cooling vent positioned substantially above said optical engine and a second cooling vent positioned at the rear of said housing whereby air from outside of said housing is drawn through said first vent by said fan and expelled through said second cooling vent.

9. (ORIGINAL) A projector as in claim 8 wherein said fan is positioned directly in front of said second cooling vent.

10. (CURRENTLY AMENDED) A projector as in ~~any one of the above~~ claims~~-~~ 1 wherein said optical engine is elevated above the bottom of said housing enabling said air flow to flow underneath said optical engine and over said optical elements to thereby cool said elements.

11. (CURRENTLY AMENDED) A projector as in ~~any one of the above~~ claims~~-~~ 1 wherein said body section houses further electronic componentry that contributes to projecting said image and provides further features to the projector such as audio means.

12. (CURRENTLY AMENDED) A projector as in ~~any one of the above~~ claims~~-~~ 1 wherein said projector includes various inputs for connecting relevant devices to said projector and various control components for controlling characteristics of said image.

13. (CURRENTLY AMENDED) A projector as in ~~any one of the above~~ claims~~-~~ 1 wherein said projector further includes a transformer adapted to convert mains input that

is typically some 240/110 Volts to 12 Volts.

14. (ORIGINAL) An image projection apparatus including: a housing;
a light source positioned within said housing;
a fan positioned within said housing;
an optical engine including a longitudinal base member adapted to house an objective lens at its front end, two side walls extending upwards adjacent its rear end, an upper clip forming an enclosure with said side walls and said base member, said enclosure adapted to hold spaced apart optical elements therein such that said optical elements and said objective lens are coaxially aligned, said optical engine positioned within said housing in front of said light source;
a substantially hollow channel extending between said optical engine and said housing; and
at least two cooling vents forming part of said housing, said first vent located substantially above said optical engine, and said second cooling vent located at the rear of said housing, said fan drawing air from said first vent through said channel and optical elements, and out of said housing through said second vent.